

- b. Remove all threadlock residue from the ignition pulse generator mounting bolt threads.
- c. Apply a medium strength threadlock onto the ignition pulse generator mounting bolts. Install and tighten the bolts to 6 N•m (53 in.-lb.).
- d. Make sure the ignition pulse generator wire is routed under the wire clamp (B, **Figure 40**) and ignition pulse generator.
- e. Apply Yamabond No. 4 (or an equivalent) onto the grommets (C, **Figure 40**) and make sure they are properly seated in the notches in the alternator cover.

REAR CRANKCASE COVER

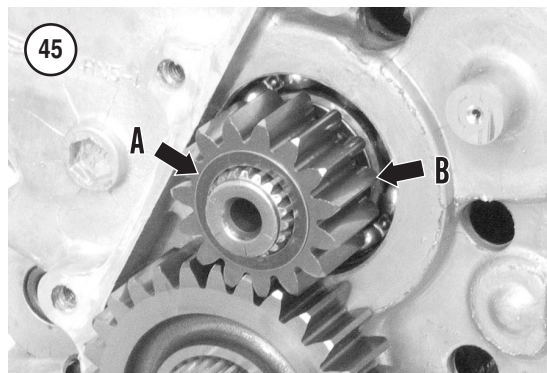
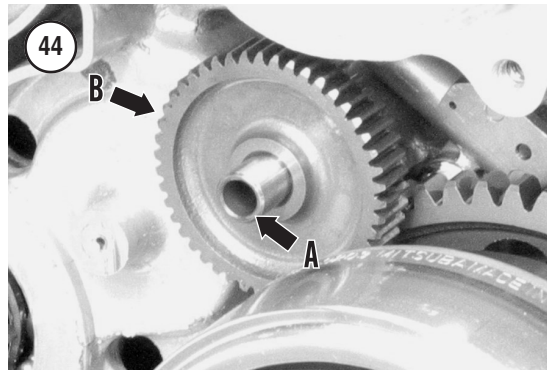
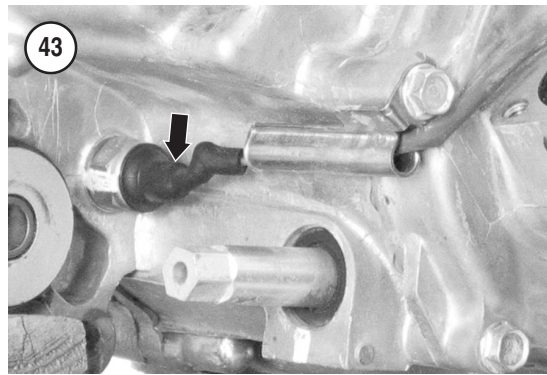
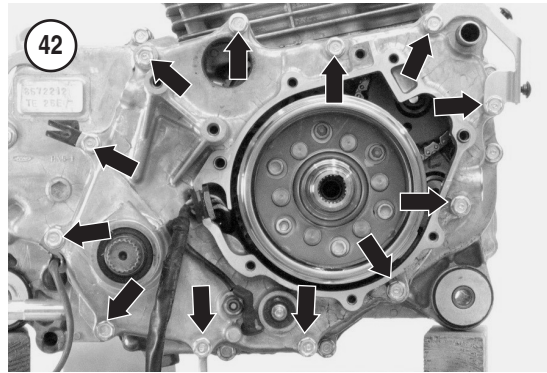
The rear crankcase cover houses the following components:

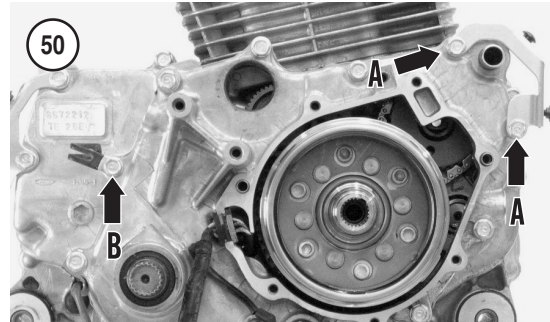
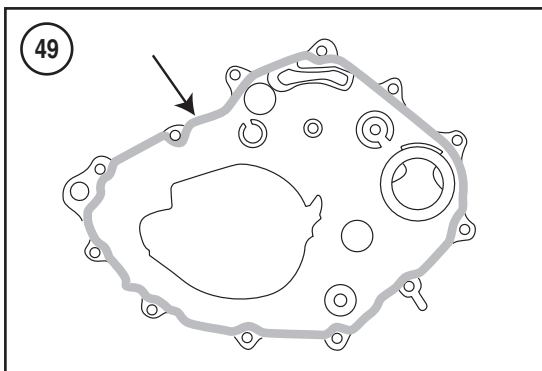
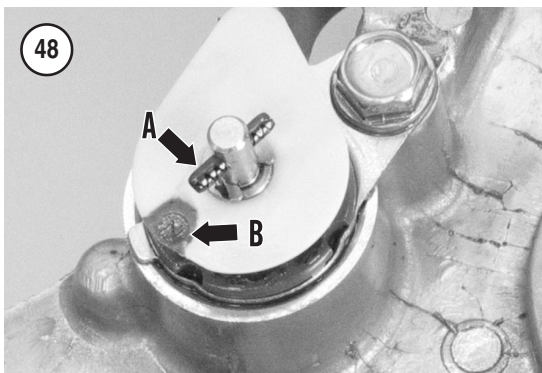
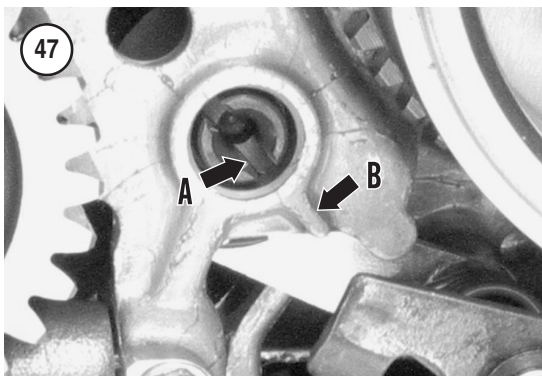
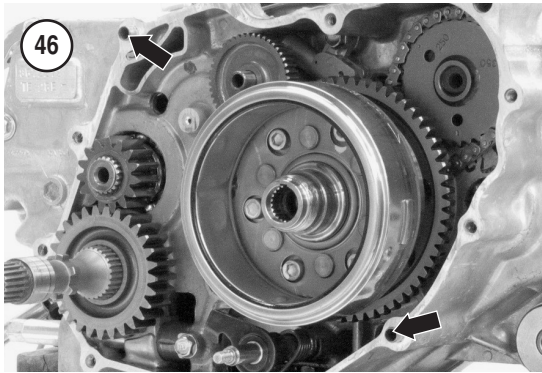
1. Gearshift spindle and gearshift arm A.
2. Final drive shaft seal.
3. Reverse spindle seal.
4. Neutral/reverse switch.
5. Vehicle speed sensor.

Removal/Installation

The rear crankcase cover can be removed with the flywheel installed on the engine.

1. Remove the alternator cover as described in this chapter.
2. Remove the starter motor (Chapter Nine).
3. Remove the speed sensor (Chapter Nine).
4. Remove the retaining nut (A, **Figure 41**), washer (B) and reverse selector arm (C).
5. Disconnect the neutral/reverse switch wire connector (D, **Figure 41**).
6. Remove the rear cover bolts (**Figure 42**).
7. Disconnect the thermosensor wire (**Figure 43**).
8. Remove the rear crankcase cover.





9. Remove the reduction gear shaft (A, **Figure 44**) and gear (B).

10. Do not lose the washer (A, **Figure 45**) on the final drive gear (B).

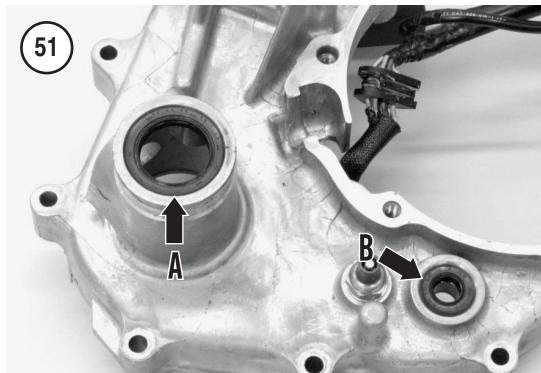
11. If necessary, remove the two dowel pins (**Figure 46**).

10. Remove all gasket material from the rear crankcase cover and engine mating surfaces.

11. Inspect the rear crankcase cover assembly as described in this section.

12. Install the rear crankcase cover assembly by reversing the preceding removal steps while noting the following:

- a. Pack all of the oil seal lips with grease.
- b. The transmission must be in neutral, which is indicated by the position of the slot on the shift drum (A, **Figure 47**). The slot must be aligned with the boss (B) on the crankcase.
- c. The long end of the neutral/reverse switch pin (A, **Figure 48**) must align with the N mark (B), which positions the switch in neutral.
- d. Make sure the washer (A, **Figure 45**) is installed on the final drive gear (B).
- e. Thoroughly clean the mating surfaces of the crankcase and crankcase cover. Apply a bead of Yamabond No. 4 or equivalent to the rear crankcase cover mating surface as shown in **Figure 49**.
- f. Install the engine side cover bracket on the upper crankcase cover bolts (A, **Figure 50**).
- g. Install the speed sensor wire guide on the left crankcase cover bolt (B, **Figure 50**).
- h. Tighten the rear crankcase cover mounting bolts in a crossing pattern and in two or three steps. Tighten all cover bolts to 12 N•m (106 in.-lb.).
- i. Install the reverse control lever (C, **Figure 41**) with the slotted side facing out. Tighten the retaining nut securely.



Inspection

1. Service the starter reduction assembly as described in *Flywheel and Starter Clutch* in this chapter.
2. Service the neutral/reverse switch as described in Chapter Nine.
3. Clean and dry the rear crankcase cover.
4. Inspect the final driveshaft (A, **Figure 51**) and reverse spindle (B) oil seals for leaks or damage. When replacing the oil seals, note the following:
 - a. Remove the oil seal by prying it out of the cover with a wide-blade screwdriver.
 - b. Check the oil seal mounting bore for cracks or other damage.
 - c. Pack the lip of the new oil seal with grease.
 - d. Install both oil seals with their flat side facing out (A and B, **Figure 51**).

FLYWHEEL AND STARTER CLUTCH

This section describes service to the starter reduction gears, flywheel and starter clutch assembly.

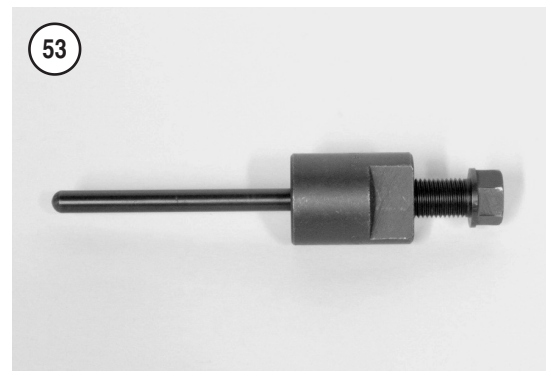
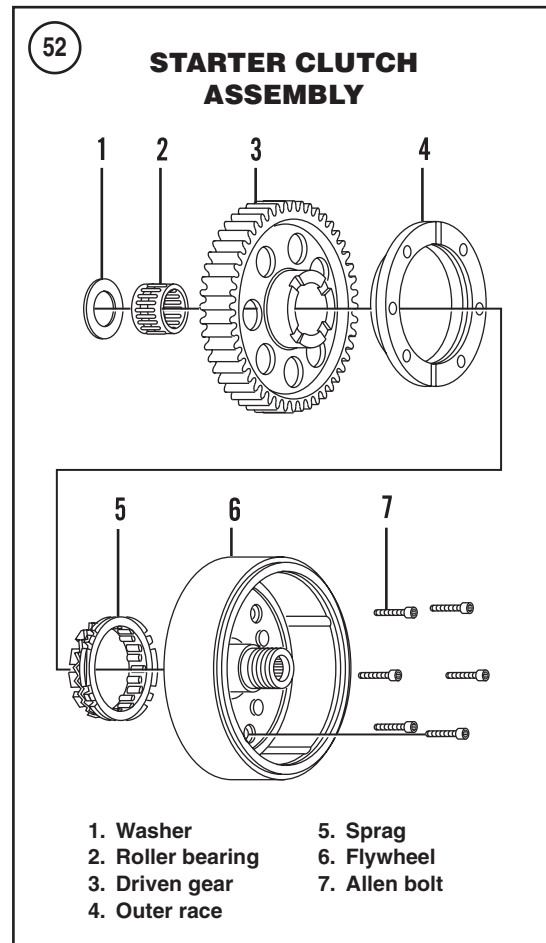
Refer to **Figure 52** when performing the following procedures.

Flywheel Puller

A flywheel puller is required to remove the flywheel from the crankshaft. Use Honda flywheel puller part No. 07725-00400000 (**Figure 53**).

Flywheel Removal

1. Remove the rear crankcase cover as described in this chapter.



2. Remove the starter reduction gear shaft (A, **Figure 54**) and gear (B) if they were not previously removed.

NOTE

Apply grease to the puller bolt threads and the tip of the puller stem.

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